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ADDITIONAL RECORDS OF NEW ENGLAND SIPHONAPTERA

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During the years 1955–1959 fleas were collected from various small mammals throughout New England. In addition to my own collections, Dr. Kerwin Hyland of the University of Rhode Island has given me permission to include certain records of fleas identified by me collected in a recent Rhode Island mammal survey. These two sources have provided the basis for this paper. All fleas cited have been identified by the author.

Family PULICIDAE Stephens 1829

Xenopsylla cheopis (Rothschild 1903). MASSACHUSETTS: Boston, October 25, 1959 off *Rattus norvegicus* and November 3, 1959 off *Mus musculus*.

Hoplopyllus glacialis lynx (Baker 1904). NEW HAMPSHIRE: Coos Co., November 25, 1950 off *Lynx canadensis*.

Cediopsylla simplex (Baker 1895). MASSACHUSETTS: Boxford, October 6, 1957 off *Sylvilagus transitionalis*; Cotuit, May 23, 1959 off *Sylvilagus floridanus*. RHODE ISLAND: Hopkinton, April 1 and April 14, 1957 off *Sylvilagus floridanus*. South Kingstown, November 29, 1955 off same host. East Greenwich, January 21, 1957 off same host. Narragansett, May 1, 1956 off same host. Exeter, October 27, 1955 off *Vulpes fulva*. Hopkinton, October 27, 1955 off same host. Charlestown October 7, 1955 off *Urocyon cinereoargenteus*.

Ctenocephalides felis (Bouché 1835). The many records of cat and dog infestations in New England by this flea are not re-

corded here, since it is generally agreed that this flea is widespread on these two hosts. This flea was also collected, however, from *Procyon lotor* in Warwick, Rhode Island, September 29, 1956 and July 12, 1957.

Family HYSTRICHOPSYLLIDAE Baker 1905

Saphiopsylla bishopi (Jordan 1933). MASSACHUSETTS: Hingham, October 21, 1959 off *Microtus pennsylvanicus*. RHODE ISLAND: Foster, April 24, 1957 off same host.

Stenoponia americana (Baker 1898). MASSACHUSETTS: Billerica, December 7, 1958 off *Peromyscus leucopus*. Holliston, November 29, 1959 off same host. RHODE ISLAND: West Greenwich, December 27, 1956 off *Clethrionomys gapperi*.

Epitedia wenmanni (Rothschild 1904). MASSACHUSETTS: Canton, November 23, 1957 off *Clethrionomys gapperi* and *Peromyscus leucopus*. Hingham, October 21, 1959 off *Peromyscus leucopus*. RHODE ISLAND: Coventry, November 16, 1956 off *Microtus pennsylvanicus*. West Greenwich, December 27, 1956 off *Clethrionomys gapperi*.

Ctenophthalmus pseudagyrtis (Baker 1904). MASSACHUSETTS: Canton, July 28, 1957 off *Tamias striatus*. RHODE ISLAND: Foster, August 16, 1956 off *Clethrionomys gapperi*. East Greenwich, October 30, 1956 off same host. Charlestown, November 10, 1955 off *Microtus pennsylvanicus*. Dutch Island, June 14, 1956 off same host. Scituate, August 28, 1956 off same host. Newport, December 20, 1956 off same host. North Kingstown, March 12, 1957 off same host. Gloucester, June 17, 1957 off same host. West Warwick, November 24, 1956 off *Blarina brevicauda*. Westerly, November 30, 1956 off *Pitymys pinetorum*. North Smithfield, August 10, 1956 off same host. South Kingstown, March 14, 1957 off *Sylvilagus floridanus*.

Doratopsylla blarinae Fox 1914. MASSACHUSETTS: Hingham, October 21, 1959 off *Blarina brevicauda*. RHODE ISLAND: West Warwick, November 24, 1956 off same host. Coventry, April 17, 1957 off same host. Block Island, October 25, 1956 off *Rattus norvegicus*.

Family CERATOPHYLLIDAE Dampf 1908

Oropsylla arctomys (Baker 1904). MASSACHUSETTS: Shirley, August 23, 1958 off *Marmota monax*. Hingham, October

15, 1959 off same host. RHODE ISLAND: The following collection records are all from *Marmota monax*. Exeter, April 18, 1956. Richmond, April 18, 1956. North Kingstown, April 18, 1956. Hopkinton, July 14, 1956. Cumberland, July 25, 1956. Foster, April 22, 1956. Westerly, July 16, 1957. South Kingstown, July 23, 1957.

Odontopsyllus multispinosus Baker 1898. MASSACHUSETTS: Cotuit, May 23, 1959 off *Sylvilagus floridanus*. RHODE ISLAND: South Kingstown, November 29, 1955 off same host. Hopkinton, April 1, 1957 off same host. Kingston, December 15, 1956 off same host. South Kingstown, March 30, 1957 off same host.

Opisodasys pseudarctomys (Baker 1904). MASSACHUSETTS: Hingham, October 5, 1958 off *Glaucomys volans*.

Orchopeas leucopus (Baker 1904). MASSACHUSETTS: This flea was found on *Peromyscus leucopus* in numerous collections in the eastern part of the state. From other hosts it was collected in Massachusetts as follows: Westwood, October 18, 1957 off *Clethrionomys gapperi*. Canton, November 23, 1957 off same host. Canton, June 27, 1957 off *Tamias striatus*. RHODE ISLAND: Block Island, October 25, 1956 off *Microtus pennsylvanicus* and *Rattus norvegicus*. South Kingstown, September 13, 1956 off *Rattus norvegicus*.

Orchopeas howardi (Baker 1895). MASSACHUSETTS: Dedham, April 19, 1957 off *Sciurus carolinensis*. Canton, June 27, 1957 off *Tamias striatus*. RHODE ISLAND: Charlestown, June 14, 1957 off *Urocyon cinereoargenteus*. South Kingstown, June 14, 1957 off *Sciurus hudsonicus*. The following records are all off *Sciurus carolinensis*; Kingston, April 2, 1957. South Kingstown, April 16, 1957. Warwick, May 15, 1957. East Greenwich, November 5, 1957. Scituate, October 9, 1956. Coventry, August 15, 1956.

Ceratophyllus gallinae (Shrank 1803). MASSACHUSETTS: Falmouth, March 1, 1958 from nest of *Sternus vulgaris*. Mashpee, March 31, 1958 from nest of *Colaptes auratus*. Barnstable, May 5, 1957 from nest of *Turdus migratorius*. Dedham, May 8, 1957 from nest of *Passer domesticus*.

Megabothris asio (Baker 1903). MASSACHUSETTS: Westwood, October 6, 1957 off *Microtus pennsylvanicus*.

Monopsyllus vison (Baker 1904). NEW HAMPSHIRE: Gorham, August 29, 1950 off *Mustela vison*.

Nosopsyllus fasciatus (Bosc 1801). RHODE ISLAND: Dutch Island, June 14, 1956 off *Rattus norvegicus*. Block Island, October 25, 1956 off same host.

Peromyscopsylla hesperomys (Baker 1904). MASSACHUSETTS: Canton, July 8, 1957 off *Peromyscus leucopus*. Westwood, September 29, 1957 off same host. Billerica, December 7, 1958 off same host. MAINE: South Portland, August 18, 1957 off same host.

Peromyscopsylla hamifer (Rothschild 1906). MASSACHUSETTS: Hingham, October 5, 1958 off *Microtus pennsylvanicus*.

One of these species of fleas has been found in New England for the first time. *Saphiopsylla bishopi* has not previously been recorded from this area, although Fuller (1943) noted that this flea has been collected in New York state and anticipated the finding of this flea in New England.

Of the twenty species of fleas recorded here the following are reported for the first time in Massachusetts: *Opisodasys pseudarctomys*, *Peromyscopsylla hamifer*, and *Saphiopsylla bishopi*. Recorded for the first time in Rhode Island are *Cedio-psylla simplex*, *Doratopsylla blarinae*, *Oropsylla arctomys*, *Odon-
topsyllus multispinosus*, *Orchopeas howardi*, *Saphiopsylla bishopi*, *Stenoponia americana*, *Epitedia wenmanni*, and *Cten-
ophthalmus pseudagyrtes*. In New Hampshire *Monopsyllus vison* is reported for the first time.

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